

Author Index to Volume 17

A

Abrial, D., 173-185
Aldemir, H., 197-207
Ancoli-Israel, S., 405-418
Andres, J., 591-595
Aragon, P., 591-595
Ardura, J., 591-595
Ashkenazi, I., 221-228
Atkinson, G., 197-207, 539-566, 679-692

B

Badrán, A. F., 751-756
Bailey, S. L., 391-404
Barbeito, C. G., 751-756
Behzadi, A., 733-750
Blanc, A., 173-185
Boari, B., 705-715
Borkovec, T. D. (letter), 229-231
Bouchut, C., 173-185
Brown, F. M. (letter), 229-231
Buisson, B., 173-185
Burau, K., 61-70
Burioka, N., 513-519
Buysse, D. J., 49-60

C

Cable, T., 197-207
Cajochen, C., 659-668
Caillard, D., 693-704
Carrier, J., 489-501, 719-732
Castrillón, P. O., 631-643
Chakraborty, A., 77-93
Chandrashekaran, M. K., 129-136, 757-765,
777-782
Chidambaram, R., 777-782
Cincotta, A. H., 155-172
Clairambault, J., 1-14
Claude, D., 1-14

Costa, R., 433-451
Czeisler, C. A., 285-311

D

Dagan, Y., 71-76
Danilenko, K. V., 659-668
Davenne, D., 693-704
de Castro Moreno, C. R., 521-537
Decousus, H., 173-185
De Luca, J., 95-99
Deng, T.-S., 43-48
de Wiljes, J., 613-622
Dijk, D.-J., 285-311
Dolev, S., 71-76
Duffy, J. F., 285-311
Duvilanski, B. H., 631-643

E

Eastman, C. I., 807-826
Edwards, B., 197-207
Erkert, H. G., 147-153
Eschenlauer, R., 795-805
Esquifino, A. I., 631-643

F

Fairhurst, S., 659-668
Fernández, J. R., 567-582
Fersini, C., 705-715
Findeisen, A., 645-658
Fischer, F. M., 521-537
Folkard, S., 539-566
Fukuhara, C., 433-451

G

Gallerani, M., 705-715
García-Bonacho, M., 631-643

Gattermann, R., 137-145
 Gauss, R., 453-469
 Gauthier, A., 693-704
 Geiser, F., 103-128
 Gerkema, M. P., 613-622
 Gerritsen, H., 613-622
 Goldman, B., 221-228
 Golombek, D., 101
 Gutenbrunner, Chr., 583-590
 Guyomarc'h, C., 767-776

H

Hall, J. A., 49-60
 Hauglid, M., 733-750
 Haus, E., 369-390
 Havás, H., 733-750
 Hebert, M., 807-826
 Hermida, R. C., 567-582
 Higuchi, S., 669-678
 Hishikawa, Y., 419-432
 Hoeft, A., 187-195
 Hofman, M. A., 245-259
 Hopkins, M. B. (letter), 229-231
 Hozumi, S., 419-432
 Hyun, K.-J., 783-793

I

Ibuka, N., 623-630
 Ijiri, H., 209-219
 Ishihara, T., 209-219

J

Jusko, W. J., 77-93

K

Karel, M., 613-622
 Kazuma, N., 503-511
 Klaus, U., 137-145
 Kohno, I., 209-219
 Koilraj, A. J., 757-765
 Komori, S., 209-219
 Komptel, B., 71-76
 Körtner, G., 103-128
 Kräuchi, K., 659-668

Krzyzanski, W., 77-93
 Kupfer, D. J., 49-60, 355-368

L

Laberge, L., 489-501
 Lagarde, D., 693-704
 Lambert, C., 489-501
 Lange, G., 95-99
 Laporte-Simitidis, S., 173-185
 Lee, Y.-A., 783-793
 Lemmer, B., 645-658
 Lespérance, P., 489-501
 Lewis, R. D., 29-41
 Lingakumar, K., 777-782
 Liu, Y., 669-678
 Louzada, F. M., 521-537
 Lumineau, S., 767-776
 Luo, J., 155-172
 Luo, S., 155-172

M

Macdonald, I., 539-566
 Macino, G., 433-451
 Maeda, A., 669-678
 Manfredini, R., 705-715
 Marimuthu, G., 757-765
 Marler, M., 405-418
 Martin, J., 405-418
 Martin, S. K., 807-826
 Matsuoka, I., 503-511
 McNeese, M. C., 61-70
 Mehta, T. S., 29-41
 Minors, D., 539-566
 Mishima, K., 419-432
 Mismetti, P., 173-185
 Miyakawa, M., 503-511
 Moessinger, M., 187-195, 795-805
 Monk, T. H., 49-60, 355-368, 719-732
 Montplaisir, J., 489-501
 Motohashi, Y., 669-678
 Muñoz, A., 591-595
 Murata, M., 503-511
 Muzet, A., 187-195, 795-805

N

Natelson, B. H., 95-99
 Nelson, J. J., 95-99

Nevill, A., 679-692
Notarnicola da Silva Borges, F., 521-537

O

Okawa, M., 419-432
Otsuka, K., 503-511
Ottenweller, J. E., 95-99
Owens, D., 539-566

P

Parks, D. K., 61-70
Peleg, L., 221-228
Pellerin, N., 187-195, 795-805
Peschke, D., 15-28
Peschke, E., 15-28
Pohl, H., 471-488
Portaluppi, F., 705-715
Prinz, P. N., 391-404

R

Réhailia, M., 173-185
Reilly, T., 197-207, 539-566, 679-692
Revilla, M., 591-595
Richard, J.-P., 767-776
Rose, L. R., 49-60
Ruoff, P., 733-750

S

Sako, T., 513-519
Salmi, R., 705-715
Sano, S., 209-219
Sawanobori, T., 209-219
Schänzer, A., 645-658
Seifert, R., 453-469
Servatius, R. J., 95-99
Sharma, V. K., 129-136, 757-765, 777-782
Shenkman, L., 71-76
Shilo, L., 71-76
Shimizu, E., 513-519
Shirase, E., 503-511
Shochat, T., 405-418
Singh, T. J., 777-782
Smolensky, M. H., 61-70
Smorjik, Y., 71-76

Subbaraj, R., 777-782
Surur, J. M., 751-756
Suyama, H., 513-519
Sytnik, N., 539-566

T

Takusagawa, M., 209-219
Tamura, K., 209-219
Tassi, P., 187-195, 795-805
Teichmann, J., 15-28
Terada, A., 623-630
Terman, M., 659-668
Tiersky, L., 95-99
Tokura, H., 783-793
Tosini, G., 433-451, 599-612
Touitou, Y., 369-390
Tremblay, R. E., 489-501
Tseng, T.-C., 43-48
Tucker, P., 539-566

V

Van Hoecke, J., 693-704
van Lavieren, H., 613-622
Van Someren, E. J. W., 233-243, 313-354
Videler, J. J., 613-622
Vinsjevik, M., 733-750
Vitaro, F., 489-501

W

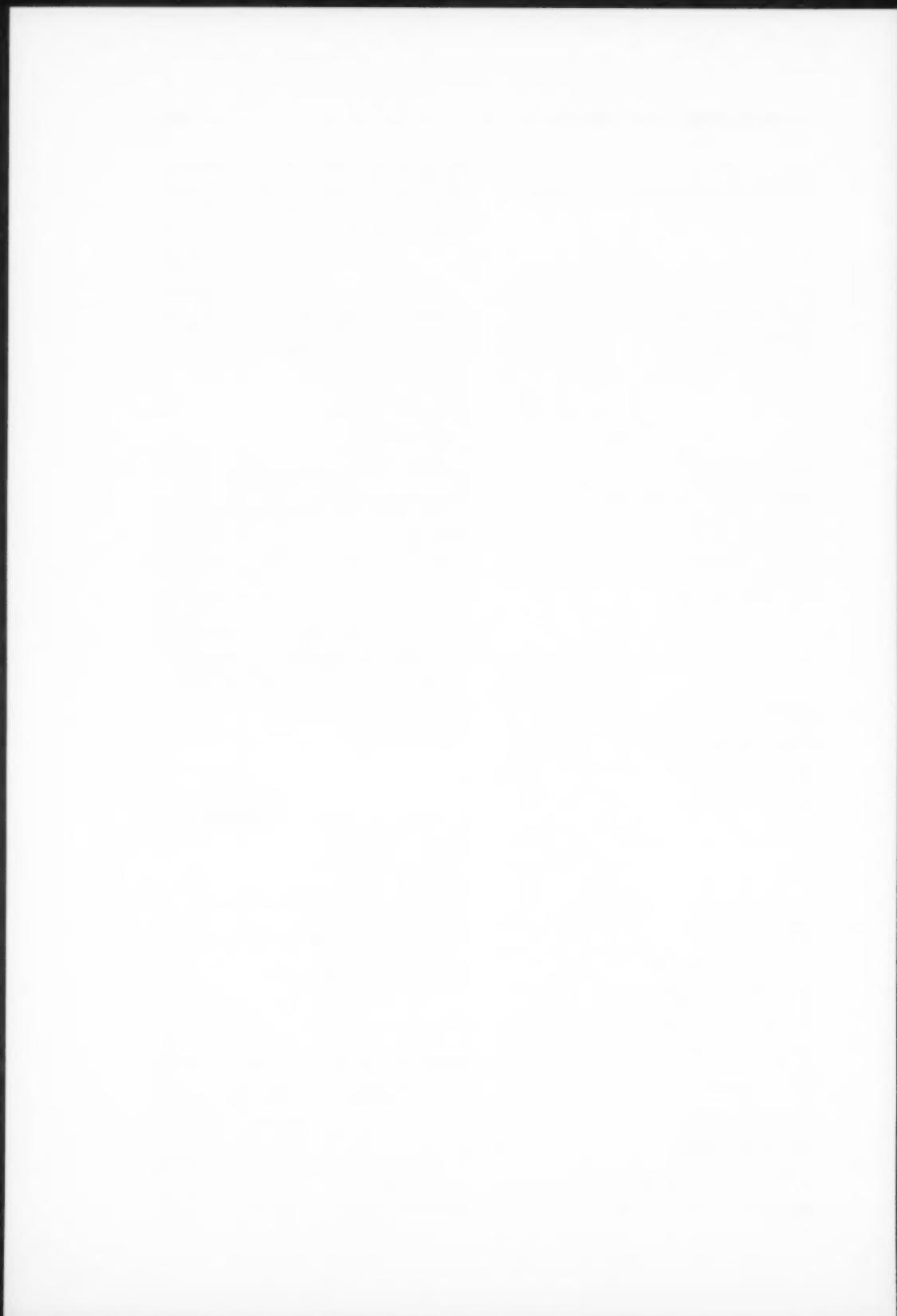
Waterhouse, J., 197-207, 539-566, 679-692
Weber, J. M., 659-668
Weinandy, R., 137-145
Weinberg, U., 71-76
Weinert, D., 261-283, 539-566, 679-692
Wilf-Miron, R., 221-228
Wirz-Justice, A., 659-668
Witte, K., 645-658
Woods, D. L., 391-404

Y

Yetman, R. J., 61-70
Yin, D., 209-219
Yuasa, T., 669-678

Z

Zhang, Q. W., 95-99
Zordan, M., 433-451



Subject Index to Volume 17

A

Activity, in neonates, factors influencing the sensitivity of body temperature to, 679-692

Adolescence, sleep and circadian phase characteristics in a naturalistic summer-time condition, 489-501

Adrenal steroids circadian rhythms, contribution to the inverse blood pressure rhythm in hypertensive rats, 645-658

Aging

- alterations of the endocrine and neuroendocrine circadian system in humans in, 369-390
- and changes of the circadian system, 261-283
- and changes of human sleep, contribution of circadian physiology and sleep homeostasis to, 285-311
- circadian rhythms of sleep in, 233-243
- effect on hibernation in Syrian hamsters, 623-630
- healthy
 - effects on circadian rhythms downstream from the pacemaker, 355-368
 - sleep impairments in, 391-404
- and the human circadian clock, 245-259
- and interaction between the circadian regulation of temperature and sleep, 313-354
- and variations in proliferation rate and circadian periodicity of mitotic activity of the pars intermedia in the female mouse, 751-756

See also Alzheimer's disease; Demented elderly persons

Agitation, circadian rhythms in institutionalized patients with Alzheimer's disease, 405-418

Alertness

- in aging, 355-368
- impact of 12h shifts on, 521-537

Alzheimer's disease, circadian rhythms of agi-

tation in institutionalized patients with, 405-418

Ambulatory blood pressure monitoring, computation of model-dependent tolerance bands for, 567-582

Annual nuclear volume, in ventromedial hypothalamic nucleus neurons of the male Wistar rat, pineal influence on, 15-28

Antithrombotic drug, establishing the dose-dependent daily variations through a population approach analysis, 173-185

Anxiety, diurnal rhythms of (letter), 229-231

Aspartate, effect of chronic hyperprolactinemia on daily changes in concentrations in hypothalamic areas, 631-643

Asthma

- nocturnal, alteration of circadian rhythm in peak expiratory flow in patients with, 513-519
- seasonal variation in heart rate variability in children with, 503-511

B

Biological clock, and aging, 245-259

Blood pressure

- ambulatory monitored, computation of model-dependent tolerance bands for, 567-582
- pattern, effect of imidapril on, 209-219

Blood-borne pathogen exposure, day-night pattern among medical students and residents, 61-70

Body temperature

- core, effects of skin pressure on circadian rhythms of, 783-793
- factors influencing sensitivity to activity in neonates, 679-692

Brain pacemaker oscillations, a key role for hyperpolarization-activated cation channels in, 453-469

Brambling (*Fringilla montifringilla*), circadian control of migratory restlessness and the effects of exogenous melatonin in, 471–488

Bright light, artificial, for treatment of disorganized circadian rest-activity and dysfunctional autonomic and neuroendocrine systems in institutionalized demented elderly persons, 419–432

Bromocriptine antidiabetic effects, association with a shift in the daily rhythm of monoamine metabolism within the suprachiasmatic nuclei of the Syrian hamster, 155–172

C

Cardiogenic pulmonary edema, acute, circadian variation in onset of, 705–715

Cave-dwelling millipede, circadian rhythms in the locomotor activity of, 757–765

Chronic fatigue syndrome, seasonal occurrence with sudden beginning, 95–99

Chronic obstructive pulmonary disease (COPD) intensive care patients, effect of melatonin on quality of sleep of, 71–76

Chronopharmacology, effect of imidapril in hypertensive patients, 209–219

Circadian physiology, contribution to age-related changes in human sleep, 285–311

Circadian rhythms

- of activity and feeding in an owl monkey (*Aotus lemurinus griseimembra*), internal desynchronization of, 147–153
- of activity and sensitivity to noise in the mongolian gerbil (*Meriones unguiculatus*), 137–145
- of activity in the tropical labrid fish *Haliichthys chrysus*, photic entrainment of, 613–622
- of adolescents and young adult males in a naturalistic summertime condition, 489–501
- in aging, 245–259
- effects downstream from the pacemaker, 355–368
- of agitation in institutionalized patients with Alzheimer's disease, 405–418

of core temperature and salivary melatonin, effects of skin pressure by clothing on, 783–793

of the effects of moderate exercise on core temperature and cutaneous thermoregulatory mechanisms, 197–207

of electric discharge in *Eigenmannia virescens* system, 43–48

of heart rate in West syndrome, 591–595

in human muscular efficiency, 693–704

in the locomotor activity of a cave-dwelling millipede, 757–765

of a mammal, two-pulse perturbations for probe of, 129–136

of melatonin in the retina of mammals, 599–612

of migratory restlessness and the effects of exogenous melatonin, 471–488

in onset of acute cardiogenic pulmonary edema, lack of dependence on patients' features and underlying pathophysiological causes, 705–715

in peak expiratory flow, 513–519

of performance, 719–732

reentrainment, failure of extraocular light to facilitate, 807–826

in the renin-angiotensin system and adrenal steroids, contribution to the inverse blood pressure rhythm in hypertensive rats, 645–658

review of, 433–451

of the serum creatine kinase level, masking effect in, 583–590

and sleep in human aging, 233–243

of sporulation in clock mutants of *Neurospora crassa*, pH homeostasis of, 733–750

of temperature and sleep in aging, 313–354

of the temporal organization of daily torpor and hibernation, 103–128

of visual resolution in humans, 187–195

of visual sensitivity over the 24h period, 795–805

Circalunidian clock, dual, for tidal rhythmicity in the sand beach isopod *Cirolana cookii*, 29–41

Circannual rhythms, of the temporal organization of daily torpor and hibernation, 103–128

Cirolana cookii, quantitative tests of a dual circalunidian clock model for tidal rhythmicity in, 29–41

Clock genes, review of, 433-451
 Clock mutants, of *Neurospora crassa*, pH homeostasis of the circadian sporulation rhythm in, 733-750
 Clothing skin pressure, effects on circadian rhythms of core temperature and salivary melatonin, 783-793
 Cognitive event-related potential, diurnal variation in the P300 component of, 669-678
 COPD. *See* Chronic obstructive pulmonary disease
 Cortisol, role in sleep impairments in healthy seniors, 391-404
 Creatine kinase, masking effect in circadian variations of the serum level of, 583-590

D

Daily torpor, circadian and circannual rhythms of the temporal organization of, 103-128
 Daily variations, dose dependent, of a low molecular weight heparin, establishing through a population approach analysis, 173-185
 Dawn light pulse, simulated, phase advance after, 659-668
 Demented elderly persons, institutionalized, supplementary administration of artificial bright light and melatonin as treatment for disorganized circadian rest-activity and dysfunctional autonomic and neuroendocrine systems in, 419-432

Diary study, of the sleep of healthy people, 49-60

Diurnal rhythms
 of anxiety (letter), 229-231
 of enzyme activity of maternal and fetal blood, 221-228

Diurnal variation, in the P300 component of human cognitive event-related potential, 669-678

E

Eigenmannia virescens system, evidence of circadian rhythm of electric discharge in, 43-48
 Electric discharge circadian rhythm, in *Eigenmannia virescens* system, 43-48

Endocrine circadian system, alterations with aging, 369-390
 Enzyme activity, rhythm differences in maternal and fetal blood, 221-228
 Exercise, immediate effects on core temperature and cutaneous thermoregulatory mechanisms, 197-207
 Extraocular light, failure to facilitate circadian rhythm reentrainment in humans, 807-826

F

Feeding activity, internal desynchronization in an owl monkey, 147-153
 Field mouse *Mus booduga*, irradiance dependency of UV-A induced phase shifts in the locomotor activity rhythm of, 777-782
 Fish, *Halichoeres chrysus*, photic entrainment of the circadian activity patterns in, 613-622
 Food-entrainable oscillator, internal desynchronization in an owl monkey, 147-153
 Fourier analysis, for biorhythmic baselines of pharmacodynamic indirect response models, 77-93

G

Glutamate, effect of chronic hyperprolactinemia on daily changes in concentrations in hypothalamic areas, 631-643

H

Healthy people, a diary study of sleep of, 49-60
 Heart pacemaker oscillations, a key role for hyperpolarization-activated cation channels in, 453-469
 Heart rate
 circadian changes in West syndrome, 591-595
 variability, seasonal variation in children with asthma, 503-511
 Hibernation
 circadian and circannual rhythms of the temporal organization of, 103-128
 in Syrian hamsters, age effect on, 623-630

Homeostatic factor, in performance, 719-732
 Hyperpolarization-activated cation channels, a key role in pacemaker oscillations in heart and brain, 453-469
 Hyperprolactinemia, chronic, effect on daily changes of glutamate and aspartate concentrations in hypothalamic areas, 631-643
 Hypertension, effect of imidapril on pattern of blood pressure in, 209-219
 Hypothalamus, effect of chronic hyperprolactinemia on daily changes in glutamate and aspartate concentrations in areas of, 631-643

I

Imidapril, effect in dipper and nondipper hypertensive patients, 209-219
 Indirect response models, pharmacodynamic, algorithm for application of Fourier analysis for biorhythmic baselines of, 77-93
 Intensive care patients, with COPD, effect of melatonin on quality of sleep of, 71-76
 Interleukin-1 beta, role in sleep impairments in healthy seniors, 391-404
 Internal desynchronization, of the circadian activity and feeding rhythm in an owl monkey, 147-153
 Inverse blood pressure rhythm, in hypertensive rats, contribution of the circadian rhythms in the renin-angiotensin system and adrenal steroids to, 645-658
 Irradiance dependency, of UV-A induced phase shifts in the locomotor activity rhythm of the field mouse, 777-782

J

Japanese quail, ontogeny of the ultradian rhythm of activity in, 767-776

L

Latin American Symposium of Chronobiology (meeting report), 101
 Locomotor activity circadian rhythms of a cave-dwelling millipede, 757-765

in the field mouse, irradiance dependency of UV-A induced phase shifts in, 777-782
 of mongolian gerbil (*Meriones unguiculatus*), 137-145

M

Mammals, circadian rhythm of melatonin in the retina of, 599-612
 Masking of circadian variations of the serum creatine kinase level, 583-590
 of temperature data, 539-566
 Medical students and residents, day-night pattern in accidental exposures to blood-borne pathogens among, 61-70
 Melatonin circadian rhythm in the retina of mammals, 599-612
 effect on sleep quality of COPD intensive care patients, 71-76
 exogenous, circadian control of the effects of, 471-488
 and phase advance after simulated dawns in humans, 659-668
 salivary, effects of skin pressure by clothing on circadian rhythms of, 783-793
 for treatment of disorganized circadian rest-activity and dysfunctional autonomic and neuroendocrine systems in institutionalized demented elderly persons, 419-432
 Mesopic luminance, circadian rhythm influence on visual sensitivity to, 795-805
 Migratory restlessness, circadian control of, 471-488
 Mitotic activity, of the pars intermedia in the female mouse, 751-756
 Mongolian gerbil (*Meriones unguiculatus*), circadian activity rhythms and sensitivity to noise of, 137-145
 Mother and fetus, differences in rhythms of enzymatic activity of blood of, 221-228
 Muscular efficiency, human, circadian rhythms in, 693-704

N

Neonates, factors influencing the sensitivity of body temperature to activity in, 679-692

Neuroendocrine circadian system, alterations with aging, 369-390

Neuroendocrine rhythms, association of the antidiabetic effects of bromocriptine with a shift in the daily rhythm of monoamine metabolism within the suprachiasmatic nuclei, 155-172

O

Ontogeny, of the ultradian rhythm of activity in Japanese quail, 767-776

Oscillations, PER protein, period shift induction by intermittent stimulation in a *Drosophila* model of, 1-14

Oscillators, circadian, two-pulse perturbations for probe of, 129-136

P

P300 component, of human cognitive event-related potential, diurnal variation of, 669-678

Pacemaker current, in heart and brain, 453-469

Pars intermedia, in the female mouse, mitotic activity of, 751-756

Peak expiratory flow, alteration of circadian rhythm with nocturnal asthma and theophylline chronotherapy, 513-519

PER protein oscillations, period shift induction by intermittent stimulation in a *Drosophila* model of, 1-14

Performance, circadian rhythms of, 719-732

Period shift, induction by intermittent stimulation in a *Drosophila* model of PER protein oscillations, 1-14

pH homeostasis, of the circadian sporulation rhythm in clock mutants of *Neurospora crassa*, 733-750

Pharmacodynamic indirect response models, algorithm for application of Fourier analysis for biorhythmic baselines of, 77-93

Phase advance, after simulated dawns in humans, 659-668

Phase shifts
of the circadian oscillator, 129-136
UV-A induced, in the locomotor activity rhythm of the field mouse, irradiance dependency of, 777-782

Photic entrainment, of the circadian activity patterns in the tropical labrid fish *Halichoeres chrysus*, 613-622

Pineal, influence on annual nuclear volume changes in ventromedial hypothalamic nucleus neurons of the male Wistar rat, 15-28

Population approach analysis, for establishing the dose-dependent daily variations of a low molecular weight heparin, 173-185

Postlunch dip, in performance, 719-732

Purification, of core temperature data, 539-566

R

Renin-angiotensin system circadian rhythms, contribution to the inverse blood pressure rhythm in hypertensive rats, 645-658

Retina, of mammals, circadian rhythm of melatonin in, 599-612

Rhythm disturbances, and aging, 261-283

S

Seasonality

of chronic fatigue syndrome with sudden beginning, 95-99

in heart rate variability in asthmatic children, 503-511

Shift work

impact of 12h shifts on sleep and alertness, 521-537

schedules, relation to accidental exposures to blood-borne pathogens among medical students and residents, 61-70

Skin pressure by clothing, effects on circadian rhythms of core temperature and salivary melatonin, 783-793

Sleep

and circadian phase characteristics of adolescent and young adult males in a naturalistic summertime condition, 489-501

of healthy people, a diary study of, 49-60
in human aging

circadian rhythms of, 233-243

contribution of circadian physiology and sleep homeostasis to, 285-311

Sleep (*continued*)
 interaction of circadian regulation with circadian regulation of temperature, 313-354
 roles of stress, cortisol, and interleukin-1 beta in impairments of, 391-404
 impact of implementation of 12h shifts on, 521-537
 quality, in COPD intensive care patients, effect of melatonin on, 71-76

Sporulation circadian rhythm, in clock mutants of *Neurospora crassa*, pH homeostasis of, 733-750

Stress, role in sleep impairments in healthy seniors, 391-404

Suprachiasmatic nuclei, of the Syrian hamster, association of the antidiabetic effects of bromocriptine with a shift in the daily rhythm of monoamine metabolism within, 155-172

Syrian hamster, effect of aging on hibernation in, 623-630

T

Temperature data, comparison of methods for purification of, 539-566

Theophylline chronotherapy, and alteration of circadian rhythm in peak expiratory flow, 513-519

Thermoregulation
 circadian regulation in aging, interaction with the circadian regulation of sleep, 313-354

cutaneous, immediate effects of moderate exercise on, 197-207

Tidal rhythmicity, in the sand beach isopod *Cirolana cookii*, quantitative tests of a dual circalunidian clock model for, 29-41

Tolerance intervals, for ambulatorily monitored blood pressure, 567-582

U

Ultradian rhythm, of activity in Japanese quail, ontogeny of, 767-776

V

Ventromedial hypothalamic nucleus neurons, of the male Wistar rat, pineal influence on annual nuclear volume in, 15-28

Visual resolution power, fluctuation over the 24h period in humans, 187-195

Visual sensitivity, circadian rhythm over the 24h period, 795-805

W

West syndrome, circadian changes of heart rate in, 591-595

